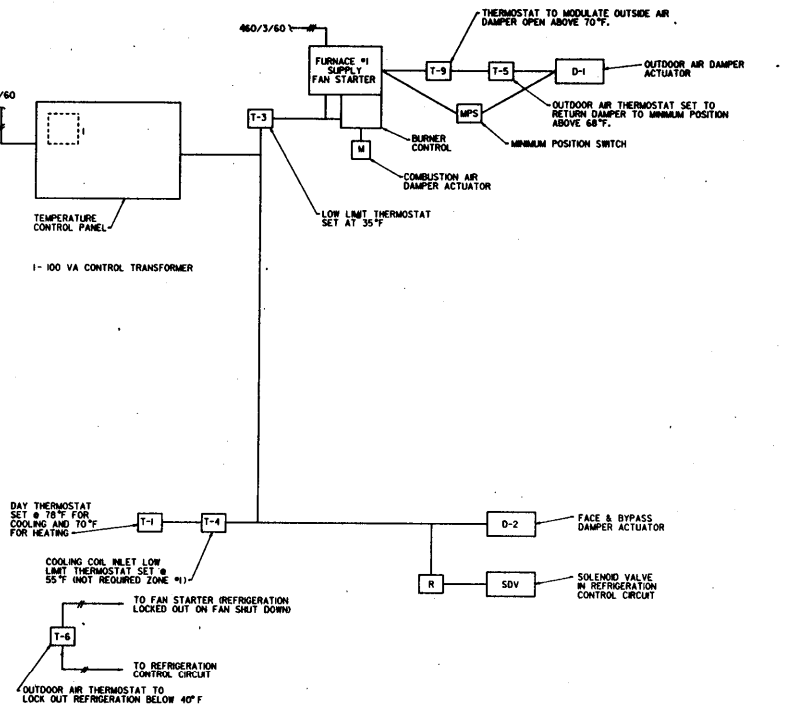
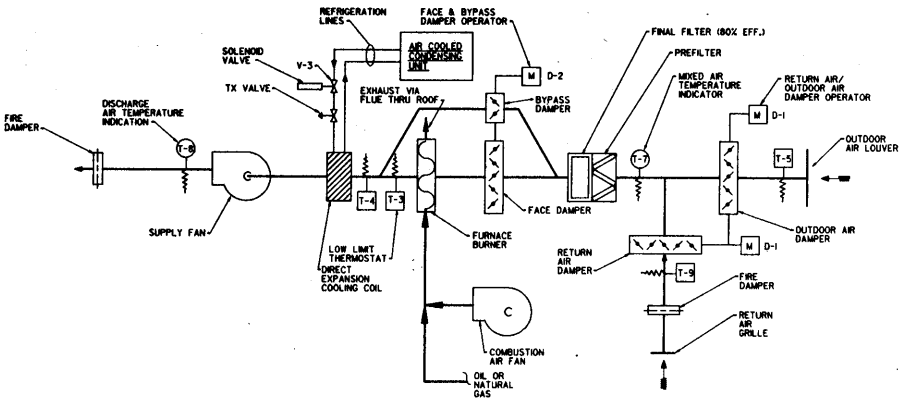


FURNACE #1 & #2 CONTROL SYSTEM SCHEMATIC

NO SCALE (24 HOUR OPERATION)



TEMPERATURE CONTROL DIAGRAM, FURNACE #1 & #2

NO SCALE

CONTROL SEQUENCE:

DAY CYCLE (24 HOUR OPERATION)

1. FAN RUNS CONTINUOUSLY; D-1 OPENS TO MINIMUM POSITION.
2. REFRIGERATION OPERATIVE.
3. T-1 ON RISING TEMPERATURE SHUTS OFF FURNACE. CLOSES FACE DAMPER AND OPENS BYPASS DAMPER THRU D-2.
4. ON FURTHER TEMPERATURE RISE OUTDOOR AIR DAMPER OPENS THRU D-1 VIA T-9.
5. THERMOSTAT T-4 OVERRIDES T-1 TO PREVENT SUPPLY AIR BELOW 55°F.
6. THERMOSTAT T-5 RETURNS D-1 TO MINIMUM POSITION ABOVE 68°F OUTDOORS.
7. THERMOSTAT T-6 LOCKS OUT REFRIGERATION BELOW 40°F OUTDOOR AIR TEMPERATURE.
8. T-3 STOPS FAN AND CLOSES OUTDOOR AIR DAMPER BELOW 35°F.

NOTES:

1. ALL ITEMS MARKED WITH AN * SHALL BE MOUNTED INSIDE CONTROL PANEL.
2. ALL ITEMS MARKED WITH AN ** SHALL BE MOUNTED IN PANEL FACE.
3. EXHAUST FAN MEF-2 & 4 SHALL BE ENERGIZED BY A WALL SWITCH AS REQUIRED. ALL OTHER EXHAUST FANS RUN CONTINUOUSLY.
4. FOR TYPICAL WIRING DIAGRAMS, SEE TXHVP13 OR 8XHVP13.
5. ISOLATION ROOMS SHALL HAVE "POSITIVE-NEGATIVE" SELECTOR SWITCH. SEE PLANS AND 5XHVP15.

Symbol	Description	Date Approved
	Revisions	

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ARCHITECT - ENGINEER DIVISION
GREENVILLE, SOUTH CAROLINA

US ARMY ENGINEER DIVISION HUNTSVILLE
CORPS OF ENGINEERS
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Site adapt A/E :

ARMY MOBILIZATION DESIGNS
US Army Corps of Engineers

WARD-46 BED

HVAC CONTROL SCHEMATICS

Dwn. by :	Ckd. by :	Date :	Sheet reference number :	Design file no.:
DLS	JML	14 MAY 84	HV-6	MDR8406 Rev.
Reviewed by : MJC		Drawing code : M 510-10-F		Sheet 6 of 10
Approved by : CWH				

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